

REMARKS

Claims 1 and 3-11 are pending in the present application and have been examined on their merits. By this amendment, claims 4, 8 and 10 have been cancelled and claims 12-17 have been added. The Applicant believes that the new claims 12-17 are fully supported in the specification and do not represent new matter.

The Applicant gratefully acknowledges that claim 3 and 11 have been allowed. The present amendment to allowed claim 3 corrects a typographical error to so that motor/generator are now both singular in tense.

Specification

The Abstract of the Disclosure is objected to for exceeding 150 words in length and certain implied phraseology. The Applicant by the present amendment submits a substitute Abstract of the Disclosure which is believed to overcome this objection.

The disclosure is objected to for informalities under "Reference to Related Applications". These informalities are corrected by the present amendment.

Drawings

The drawings are rejected under 37 CFR 1.83(a) for failing to show the 90 degree pitch for the motion converter teeth as described in the specification. The applicant corrects this rejection by adding a cross sectional view (Fig. 18A) to the exploded perspective view of Fig. 18. A replacement sheet (including Fig. 18 and Fig 18A) is attached. Fig. 18A illustrates the greater than 90 degree pitch angles of the teeth of the reaction control rotor and output rotor (as

necessary for bevel gear and face gear embodiments of the invention). This rejection should be reconsidered and withdrawn.

Claim Rejections

Claims 1 and 7 are rejected under 35 U.S.C. §103(a) as being unpatentable over Davidson (U.S. Pat. No. 3,895,540) in view of Wildhaber (U.S. Pat. No. 3,595,103). Claims 5 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Davidson in view of Wildhaber and further in view of Yamamoto *et al.* (U.S. Pat. No. 5,799,749). This rejection is in error.

Independent claims 1 and 7 are presently amended. Claim 1 as amended is directed to a face gear embodiment (teeth pitch angles greater than 90°) of a continuously variable speed power transmission including a pericyclic motion converter engaged with a reaction control rotor wherein the rate of rotation of the rotor is selectively adjusted by a control means, and motor/generator components integrated in the reaction control rotor. Claim 5, which depends from claim 1, is directed to the transmission in a vehicle wheel hub. Newly added claims 12 and 13, which also depends from claim 1, ^{and} is directed to the transmission with a DC speed control motor elements limitation (as described in the specification on p. 22, line 9, and illustrated in Fig. 19) and vehicle wheel hub location (p.21, lines 23-30 and elsewhere in the specification).

Claim 7 as amended is directed to a bevel gear embodiment (pitch angles greater than 90°) of a continuously variable speed power transmission including a pericyclic motion converter engaged with a reaction control rotor wherein the rate of rotation of the rotor is selectively adjusted by a control means, and motor/generator components integrated in the reaction control rotor. Claim 9, which depends from claim 7, is directed to the transmission in a vehicle wheel hub. Newly added claims 14 and 15, which also depends from claim 1, are directed to the transmission with an additional DC speed control motor elements

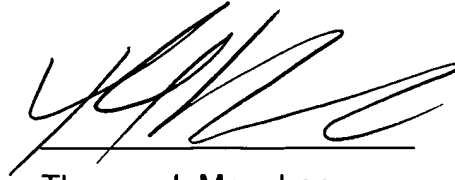
limitation (as described in the specification on p, 22, line 9, and illustrated in Fig. 19) and vehicle wheel hub location.

The Applicant submits newly amended claims 1 and 7 and new claims 12-14 to further describe the invention and define over the prior art. The amended and new claims under examination are offered to more particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The cited art, even in combination, clearly does not arrive at Applicant's invention. The critical elements of motor/generator components integrated in a reaction control rotor, let alone additional DC speed control motor elements integrated with the input member of the continuously variable speed power transmission having a pericyclic motion converter with a control means, are not taught in the art. In addition, there is no suggestion or motivation, either in the Davidson, Wildhaber or Yamamoto references or in the general knowledge of those skilled in the art, to modify any reference or combination of references with a reasonable expectation of success to arrive at the claimed invention.

In view of the above responsive to the subject Office Action, the Applicant believes that the rejections under 35 U.S.C. §103(a), as applied to pending claims, should be reconsidered and withdrawn. The claims as currently presented distinguish from the art references and represent patentable subject matter. Reconsideration and allowance, being in order, are earnestly solicited. Should there be further issues, the undersigned would welcome a telephone call to facilitate their resolution

Respectfully submitted,

DATE: 4 February 2004

A handwritten signature in black ink, appearing to read 'TJ Monahan', written over a horizontal line.

Thomas J. Monahan
Attorney for Applicant
Registration No. 29, 835
Monahan & Costello, LLC
4154 Madison Avenue
Trumbull, CT 06611
Tel: (203) 373-1919
Fax: (203) 373-0805